

CHOBANOV, I.: PENKOV, B.

"Botev's Urotsi za purvite chetiri aritmeticheski pravila (Lessons of the First Four Rules of Arithmetic); a book review"

Fiziko-Matematicheskoe Spisanie. Sofia, Bulgaria. Vol. 1, no. $\frac{1}{2}$, 1958

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 6, Jun 59, Unclas

CHOBANOV, I. ; DOLAPCHIEV, B. ; PASKALEV, G.

On the differential equation of J. Halm. p. 67

GODISHNIK. MATEMATIKA I FIZIKA. Sofia, Bulgaria, Vol. 50 No. 1, 1955/56
(published 1957)

Monthly List of East Accession (EEAI) LC, Vol. 9, No. 1 January 1960

Uncl.

CHOBANOV, I.

On a differential equation of T. Leko. p. 75.

GODISHNIK. MATEMATIKA I FIZIKA. Sofia, Bulgaria, Vol. 50 No. 1, 1955/56
(published 1957)

Monthly List of East Accession (EEAI) LC, Vol. 9, No. 1 January 1960

Uncl.

CHOBANOV, I. ; PASKALEV, G.

Question on intergration of the differential equation of J. Halm. p. 61.

GODISHNIK. MATEMATIKA I FIZIKA. Sofia, Bulgaria, Vol. 50, no. 1 pt. 2
1955/56 (published 1958)

Monthly List of East Accession (EEAI) LC, Vol. 9, No. 1 January 1960

Uncl.

CHOBANOV, I. ; PASKALEV, G.

An examination of Riccati differential equations by N.V. Sakharov, p. 59.

GODISHNIK. MATEMATIKA I FIZIKA. Sofia, Bulgaria, Vol. 50, no. 1 pt. 2
1955/56 (published 1958)

Monthly List of East Accession (EEAI) LC, Vol. 9, No. 1 January 1960

Uncl.

CHOBANOV, I. ; PASKALEV, G.

A method of L. Chakalov and the hypergeometric differential equation. p. 43.

GODISHNIK. MATEMATIKA I FIZIKA. Sofia, Bulgaria, Vol. 50, no. 1 pt. 2
1955/56 (published 1958)

Monthly List of East Accession (EEAI) LC, Vol. 9, No. 1 January 1960

Uncl.

CHOBANOV, I. ; PASKALEV, G.

Other quadratures of the hypergeometric differential equation. p. 1

GODISHNIK. MATEMATIKA I FIZIKA. Sofia, Bulgaria, Vol. 50, no. 1, pt. 2, 1955/56 (published 1958).

Monthly List of East Accession (EEAI) LC, Vol. 9, No. 1 January 1960

Uncl.

CHOBANOV, I.

SCIENCE

Periodical: IZVESTIYA. Vol. 3, no. 1, 1958

CHOBANOV, I. On a differential equation of J. Halm. p. 51.

Monthly List of East European Accessions (EEAI), IC. Vol. 8, no. 2
February 1959, Unclass.

KIUCHUKOV, Iosif; PASKALEV, Georgi; CHOBANOV, Iohn

On the geometry of the instrument used for cutting conic spiral gear wheels. Godishnik khim tekhn 6 no.2:65-76 '59 (Publ. '60).

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16 3400

S/044/61/000/012/012/054
C111/C333

AUTHORS: Paskalev, Georgi, Chobanov, Ivan

TITLE: On an elementarily integrable case of the Abel differential equation

PERIODICAL: Referativnyy zhurnal, Matematika, no. 12, 1961, 28-29, abstract 12B122. ("Godishnik Sofiysk.un-t Fiz.-matem. fak.", 1957-1958 (1959), 52, Nr. 1, 183-192)

TEXT: It is shown which relations must exist between the functions $f_v(x)$ in order that the Abelian differential equation

$$y' = \sum_{v=0}^3 f_v(x)y^v$$

be solvable in quadratures.

[Abstracter's note: Complete translation.]

Card 1/1

CHOBANOV, I.V.; PASKALEV, G.

On the differential equation $y'' + 2xy' = 0$. Izv mat inst BAN 4 no.2:
75-79 '60. (EEAI 10:9)

(Differential equations)

CHOBANOV, Ivan; GAVRILOV, Mikhail

Analytic theory of arrows. I. Godishnik fiz 55 no.1:83-158
'60/'61 (publ. '62)

CHOBANOV, Ivan

The Bertrand problem. Godishnik fiz mat 56 no.1:7-21
'61/'62 [publ. '63].

GAVRILOV, Mikhail; CHOBANOV, Ivan

Index of the nonassociativeness of multiplicative structures.
Godishnik fiz mat 56 no.1:23-26 '61/'62 [publ. '63].

CHOBANOV, L.

SCIENCE

Periodical IZVESTIYA. Vol. 8, no. 2, 1957

CHOBANOV, L.: DOLAPCHIEV, B.: On the integrals of motion of an ideal fluid in the presence of Karman's vortex paths. P. 181.

Monthly List of East European Accession 'KEAI' LC, Vol. 8, no. 3, March, 1959, Uncl.

CHOBANOV, Nikola dr.

Our social insurance scheme. Bulg tr un no.5:23-25 '61.

1. Head of the Social Insurance Department under the Central Council of the Bulgarian Trade Unions

CHOBANOVA, D., med. lek., mil. nauch. sutrudnik pri BAN; GOSPODINOVA, V.,
d-r, nashchaten sutrudnik na BAN

Treatment of peptic ulcer with succus liquiritiae. Izv. med. inst.,
Sofia Vol. 9-10:457-464 1954.

1. Sektsia za Vutreshni Bolesti (Zav.: chl.-kor. K.Chilov na
Instituta za Klinichna i Obschestvena Meditsina pri BAN i Fakultetska
Terapevtichna Klinika (dir.: chl.-kor. K.Chilov) na Meditsinskata
Akademia V.Chervenkov.

(LICORICE, therapeutic use,
peptic ulcer)
(PEPTIC ULCER, therapy,
licorice)

CHOBANOVA, Dimitrina, DIMITROV, Libknekht, ot Instituta po patologichna
fiziologiya

Urinary neutral 17-ketosteroids during sleep therapy. Izv.med.
inst.Sofia 11-12:227-240 1955.

1. Sektsiia za vutreshni bolesti(zav: Chl.kor.Konstantin Chilov)
na instituta za klinichna i obshchestvena meditsina (dir.:abrd.
Tsvetan Kristanov) pri BAN. 2. Ml.nauchn sutridnik pri BAN (for
Chobanova)

(SLEEP, therapeutic use,
urinary 17-ketosteroids in sleep ther.)

(URINE,
17-ketosteroids in sleep ther.)

(STERIODS, in urine,
17-keto, in sleep ther.)

CHOBANOVA, D.
BULGARIA/General Problems of Pathology - Allergy.

T-2

Abs Jour : Ref Zhur - Biol., No 3, 1958, 12558

Author : Dimitrov, L., Chobanova, D.

Inst : Not Given.

Title : The Possible Use of Certain Drugs in Bronchial Asthma.

Orig Pub : Izv. Med. in-ti. B'lg. AN, 1956, 13, 363-376.

Abstract : No abstract.

Card 1/1

BULGARIA/General Problems of Pathology. Metabolism

U-5

Abstr Jour : Ref Zhur - Biol., No 13, 1958, No 61088

Author : Karagezov L., Dimitrov L., Chobanova D.
Inst : Medical Institute, Belgrad Academy of Sciences
Title : 17-Ketosteroids in Brain Tumors

Orig Pub : Izv. Med. in-ta Belg. AN, 1956, 13, 477-485

Abstract : Patients with brain tumors (15) have a decreased release of 17-ketosteroids (I). When there is progress in the growth of neoplasm in brain tissues, low concentrations of I are observed more often than when the tumor is localized outside of the brain.

Card : 1/1

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CHOBANOVA, D.

DIMITROV, L.; IORDANOV, B.; CHOBANOVA, D.

Effect of radioactive cobalt on adrenocortical function;
preliminary communication. Suvrem. med., Sofia 8 no.1:
105-107 1957.

1. Iz katedra 22 (Zav. Katedrata: prof. Z. Mitsov) i Katedrata
po nevrologia (Zav. katedrata: dots. S. Boshinov) pri VMI - -
Sofia.

(COBALT, radioactive,
eff. on adrenal cortex (Bul))
(ADRENAL CORTEX, effect of drugs on,
radiocobalt (Bul))

DIMITROV, Libnekht; CHOBANOVA, D.

17-Ketosteroids in various diseases. Izv. Mikrob. inst., Sofia no.8:
179-185 1957.

1. Institut za klinichna i obshchestvena meditsina (dir.: akad. tsvetan
kristanov) pri bulgarskata akademiia na naukite.

(THROMBOANGIITIS OBLITERANS, urine in
17-ketosteroids (Bul))

(PSYCHOSES, MANIAC*DEPRESSIVE, urine in
same)

(HAIR

hirsutism in women, 17-ketosteroids in urine (Bul))

(17-KETOSTEROIDS, in urine

in hirsutism in women, maniac-depressive psychoses, & throm-
boangitis obliterans (Bul))

CHOBANOVA, D.; DIMITROV, L.

Changes in sodium & potassium levels in experimental acute asphyxia.
Izv. Mikrob. inst., Sofia no.8:561-568 1957.

1. Institut za klinichna i obshchestvena meditsina pri ban direktor
akad. konst. pashev.

(SODIUM, metab.

in acute asphyxia in cat (Bul))

(ASPHYXIA, exper.

eff. on sodium & potassium metab. in acute asphyxia in cat (Bul)

(POTASSIUM, metab.

in acute asphyxia in cat (Bul))

DIMITROV, I.; CHOBANOVA, D.

Acute radiation sickness. Suvrem. med., Sofia 9 no.6:115-122 1958.

1. Iz Katedra 22 pri VMI-Sofia (Zavezhdashch katedrata: prof. Zdr. Mitsov).

(RADIATIONS, inj. eff.

radiation sickness, acute, review (Bul))

VLADIMIROV, Vl.; BERCHEV, K.; DIMITROV, L.; CHOBANOVA, D.

Clinical, morphological and electrocardiographic changes in increased resistance of the organism to ionizing radiations. Nauch. tr. vissh. med. inst. Sofia 39 no.2:113-128 '60.

1. Predstavena ot prof. M. Rashev, zav. Katedrata po fakultetska terapiia.

(RADIATION INJURY exper)

DIMITROV, L.; TONCHEV, Khr.; CHOBANOVA, D.

Studies on the effect of small doses of beta- and gamma-rays. Nauch.
tr. vissh. med. inst. Sofia 39 no.7:19-28 '60.

1. Predstavena ot prof. Z Mitsov, rukovoditel na Katedra "22".

(RADIATION EFFECTS exper)

CHOBANOVA, D.; NIKOLOV, T., k. med. n.; DIMITROV, L., k. med. n.

Electrophoretic changes in serum proteins under the influence of
ionizing radiations. Nauch. tr. vissh. med. inst. Sofia 39 no.7:
63-76 '60.

1. Predstavena ot prof. Z. Mitsov, rukovoditel na Katedra "22".

(BLOOD PROTEINS radiation eff)
(RADIATION INJURY blood)

DIMITROV, L.; CHOBANOVA, D.

Distribution of radiothiamine in the organism under normal conditions and under the influence of largactil. Suvr. med. 12 no.12:31-38 '61.

1. Iz Katedrata po patologichna fiziologiya pri VMI [Vissh meditsinski institut] - Sofia (Rukov. na katedrata - prof. S. Pisarev).

(THIAMINE) (CHLORPROMAZINE)

NIKOLOV, P.; DIMITROV,,; CHOBANOVA, D.

The effect of atarax on the assimilation of radiothiamine. Doklady
BAN 15 no.4:455-458 '62.

*

NIKOLOV, P.; DIMITROV, L.; CHOBANOVA, D.

The effect of atarax on the assimilation of radiothiamine. Dokl. bolg.
akad. nauk 15 no.4:455-457 '62.

(THIAMINE)

(HYDROXYZINE)

TSCHOBANOVA, D. [Chobanova, D.]; BOJADDZIEV, G. [Boiadzhiev, Ts.]

Changes in serum proteinogram due to the action of Succus
Luquiritias. Doklady BAN 15 no.5:579-581 '62.

1. Lehrstuhl für Pharmakologie an der Medizinischen Fakultät,
Sofia. Vorgelegt von P. Nikolov, korr. Mitglied der Akademie.

BOIADZHIEV, Tsv.; CHOBANOVA, D.

Serum proteinogram changes under the influence of licorice juice. Nauch tr. vissh. med. inst. Sofia 42 no.1:157-165 '63.

1. Predstavena ot prof. d-r P. Nikolov.
(GLYCYRRHIZA) (PHARMACOLOGY)
(BLOOD PROTEIN ELECTROPHORESIS)

CHOBANOVA, St.

RACHEV, L.

Bulgaria

No degree listed

No affiliation listed

Sofia, Pediatrics, supplement of Sovremenna Meditsina,
No 2, 1962, pp 67-69.

"Report on the Work of the Scientific Section on Pediatrics in 1961"

Co-author:

CHOBANOVA, St.

CHOBANOVA, St.

(2)

BULGARIA

L. RACHEV, D. MARINOV, St. STATEVA, Fr. ESKENAZI and St. CHOBANOVA
[Affiliation not given]

"Antibiotic Therapy in Children."

Sofia, Suvremenna Meditsina, Vol 14, No 2, 1963; pp 13-19.

Abstract: A review of the indications and contraindications to the various antibiotics in children, based on experiences in the Department of Pediatrics of Medical College Sofia since 1947 as well as published data. Basic principles in selecting the right antibiotic for children with various diseases and of various ages, role of sensitivity testing, determination of optimal dose and route, factors affecting concentration of drug at site of infection, role of concurrent medications and related aspects are reviewed. One Soviet, 4 Bulgarian, 14 Western references.

1/1

BAKALOVA, L.; BRATANOV, Br.; SEPETLIEV, D.; KERESKOVSKI, Iv.; KOLCHEV,
Khr.; CHOBANOVA, St.

Studies of the nutrition of children in the Pleven District.
Pts. 1-2. Izv Inst khranene BAN 3:211-226 '64.

S/058/62/000/010/070/093
A061/A101

AUTHORS: Glodyanu, Al., Chobanu, G.

TITLE: Calculation of space charge and potential distribution in semiconductor wires

PERIODICAL: Referativnyi zhurnal, Fizika, no. 10, 1962, 31 - 32, abstract 10E246
("Rev. phys. Acad. RPR", 1961, v. 6, no. 1, 81 - 86)

TEXT: A solution is given for the problem of electric potential distribution in the space charge region near the surface of cylindrically shaped semiconductors. The Schriber effect is not taken into account.

[Abstracter's note: Complete translation]

Card 1/1

CHOBANU, G.

Theory of electron transfer on the surface of semiconductor whiskers. Fiz. tver. tela 3 no.8:2434-2441 Ag '61.

(MIRA 14:8)

1. Fizicheskiy institut Akademii Rumynskoy Narodnoy Respubliki, Bukharest.

(Semiconductors—Electrical properties)

GRIGORYAN, G.A., kand. veter. nauk; IGHANBEKYAN, R.A., kand. veter. nauk;
AKOPYAN, V.I., kand. veter. nauk; CHOBANYAN, A.G., glavniy
nauchnyy sotrudnik

Adult Ascaridia galli in a hen's egg. Veterinariia 41 no.12:
55-58 N '64. (MIRA 18:11)

1. Argyanskiy nauchno-issledovatel'skiy institut zhivotnovodstva
i veterinarii.

CHOEANYAN, K.S.

"Stability of the Two-Dimensional Shape of a Flange Beyond the Limits of Elasticity." Sub 25 Oct 51, Sci Res Inst of Mechanics and Mathematics, Moscow State U

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum, No. 480, 9 May 55

CHOBANYAN, K.S.

Use of stress functions in a problem concerning torsion of prismatic rods composed of various materials. Izv. AN Arm. SSR. Ser. FMET nauk 8 no.2:17-30 Mr-Apr '55.
(MIRA 8:7)

1. Sektor matematiki i mekhaniki Akademii nauk Armyanskoy SSR.
(Elastic rods and wires)

CHOBANYAN, K.S.

ARUTYUNYAN, N.Kh.; CHOBANYAN, K.S.

Torsion, accounting for creep, of prismatic bars made of various materials. Dokl. AN Arm. SSR 21 no.1:3-9 '55. (MLRA 8:11)

1. Deystvitel'nyy chlen Akademii nauk Armyanskoy SSR (for Arutyunyan) 2. Sektor matematiki i mekhaniki Akademii nauk Armyanskoy SSR

(Torsion)

CHOBANYAN, K. S.

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow
 Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp
 Reports by the following personalities are included:

- Aramanovich, I. G. (Moscow). Effective Solution of Plane Problem
 of the Theory of Elasticity for Nonhomogeneous Two-valent
 Regions Bounded by Straight Line and Circle. 199
- Arutyunyan, N. Kh. (Yerevan) and Chobanyan, K. S. (Yerevan).
 Torsion and Deflection of Prismatic Rods of Various
 Materials, With Regard to Creep. 199
- Barenblatt, G. I. (Moscow). On Some Non-linear Parabolic
 Problems of the Hydrodynamic Theory of Non-stationary
 Filtration. 199-200
- Bolotin, V. V. (Moscow). Some Problems of the Theory
 of Elastic Stability. 200
- Vinograd, R. E. (Moscow). Necessary and Sufficient
 Conditions of the Regularity of Systems of Differential
 Equation. 200-201
 Card 65/80

ARUTYUNYAN, N.Kh., (Yerevan): ~~CHOBANYAN, K.S., (Yerevan)~~

Considering creep in calculating the torsion of prismatic bars
composed of various materials. Izv. AN SSSR, Otd. tekhn. nauk
no.6:16-34 Je '56. (MLRA 9:9)

(Torsion) (Strains and stresses)

CHOBANYAN, K.S.

Bending of compound bars. Dokl. AN Arm. SSR. 23 no. 3:103-110 '56.
(MIRA 10:1)
1. Institut matematiki i mekhaniki Akademii nauk Armyanskoy SSR.
Predstavleno N. Kh. Arutyunyanom.
(Flexure)

ARYTYUNYAN, H.Kh.; CHOBANYAN, K.S.

Bending of prismatic rods made up of different materials taking the creep into consideration. Izv. AN Arm. SSR, Ser. fiz.-mat. nauk 10 no.5:59-72 '57.

(MIRA 11:2)

1. Institut matematiki i mekhaniki AN ArmSSR.
(Elastic rods and wires) (Creep of materials)

16(1)

AUTHOR:

Chobanyan, K.S.

SOV/22-11-5-9/9

TITLE:

General Bending Problem for a Bar Composed of Different Materials (Obshchaya zadacha izgiba sterzhnya, sostavlennoye iz razlichnykh materialov)

PERIODICAL:

Izvestiya Akademii nauk Armyanskoy SSR. Seriya fiziko-matematicheskikh nauk, 1958,

Vol 11, Nr 5, pp 121 - 127 (USSR

ABSTRACT:

The author considers a unilaterally fixed bar which is loaded by a single load at its end. The cross section is arbitrary but constant, and the bar consists of several parallel bars so that the cross section is composed of a number of subdomains. The direction of the load is arbitrary. By means of the linear theory the author sets up equations and boundary conditions which the stress function has to satisfy. He does not discuss the question whether the considered boundary value problem is always solvable.

Card 1/2

General Bending Problem for a Bar Composed of
Different Materials

SOV/22-11-5-9/9

There are 1 figure and 3 Soviet references.

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR
(Institute of Mathematics and Mechanics, AS Armenian SSR)

SUBMITTED: April 24, 1958

Card 2/2

CHOBANYAN, K.S.

Torsion of a composite rod with varying diameter. Dokl. AN Arm. SSR
27 no.3:139-144 '58. (MIRA 11:12)
(Elastic rods and wires) (Torsion)

24(6)

AUTHORS:

Galfayan, P. O., Chobanyan, K. S. (Yerevan)

SOV/179-59-4-11/40

TITLE:

Approximate Solution of Some Problems of Torsion of Rods With a Thin Reinforcing Coat

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye tekhnicheskikh nauk. Mekhanika i mashinostroyeniye, 1959, Nr 4, pp 85-92 (USSR)

ABSTRACT:

The function $F(x,y)$ of the stresses at the torsion of a prismatic rod with a thin reinforcing coat must satisfy the equation (0.1) of Poisson in each of the ranges D and D_1 (Fig 1) of the cross section D_0 , which correspond to the basic material of the rod and the material of the coat, the outline condition (0.2) and the conditions (0.3). As the thickness of the coat is very small as compared with the transverse dimensions of the rod, it is assumed that function $F(x,y)$ in the D_1 -range changes linearly in the direction n . The outline condition (0.4) for determining F is obtained from (0.2) and (0.3). The thickness of the coat δ in (0.4) must be constant in the direction of the generating line of the cylindrical rod surface, but it may be variable along the outline of the cross section. The formulas

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Approximate Solution of Some Problems of Torsion of Rods With a Thin Reinforcing Coat

SOV/179-59-4-11/40

(0.5) for the tangential stress in the D_0 -range, and the formula (0.6) for the D_1 -range, are written down. Formula (0.7) is given for the torsional resistance. By use of (0.5), and the formula by Grin and Ostrogradskiy, and after some transformations, the formula (0.8) for the torsional resistance in the D_0 -range is obtained from (0.4). It is pointed out that for the solution of concrete problems a new function $\tilde{\varphi}(x,y)$ is often introduced instead of $F(x,y)$ by means of the formula (0.9). The new function satisfies Laplace equation. - The following cases are studied now: 1) Elliptic cross section. The problem of torsion of a rod with elliptic cross section and thin reinforcing coat is solved in elliptic coordinates. Formula (1.15) for F , formula (1.16) for the torsional resistance C , formulas (1.17) for tangential stresses, and formula (1.18) for the maximum tangential stress which occurs at the end of the semiminor axis of the elliptic cross section of the rod, are derived. When the thickness μ of the coat in this case is set equal to zero, the known formulas for the torsional resistance and the maximum tangential stress at the torsion of a rod with elliptic cross section and without reinforcing coat are obtained from (1.16) and (1.18). 2) The

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Approximate Solution of Some Problems of Torsion of Rods With a Thin Reinforcing Coat

torsion of a hollow rod, the cross section of which is limited by two confocal ellipses, and which has a thin reinforcing coat on the outer and inner surface, is investigated. 3) A round cross section with a round eccentric cavity (Fig 4). In the two latter cases 2) and 3), the same values, and formulas required for their computation, are determined as in case 1).- In conclusion, it is said that in the presence of a reinforcing thin coat the torsional resistance greatly increases while the tangential stresses change only slightly at the same torsional angle. There are 4 figures, 1 table, and 8 Soviet references.

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR (Institute of Mathematics and Mechanics of the Academy of Sciences of the Armenian SSR)

SUBMITTED: January 24, 1959

Card 3/3

16,7360

S/022/59/012/06/04/009

AUTHORS: Chobanyan, K. S., Galfayan, P. O.

TITLE: Torsion of a Hollow Rectangular ²⁶Bar With a Thin Strengthening Cover

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fiziko-matematicheskikh nauk, 1959, Vol. 12, No. 6, pp. 89-102

TEXT: The authors consider the torsion of a prismatic bar, the rectangular cross section of which possesses a symmetric rectangular sector, where the external and internal surfaces of the bar are covered with a strengthening layer of constant thickness. The problem is based on (Ref. 1, 2) and reduced to the solution of two completely regular infinite systems of linear equations. The solution is carried out in two special cases with specification of the error.

(Remark of the reviewer: Details cannot be given, since the figure 1 to which the authors refer, and which contains the geometry of the cross section and the applied coordinate system, is missed in the text). There are 2 tables and 7 Soviet references.

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR
(Institute of Mathematics and Mechanics AS Armenian SSR)

SUBMITTED: May 14, 1959

Card 1/1

✓C

69301

18 8200 24.1000

S/179/60/000/01/023/034
E081/E535

AUTHORS: Galfayan, P. O. and Chobanyan, K. S. (Yerevan)

TITLE: The Problem of the Torsion of a Rectangular Bar with a Thin Reinforcing Covering

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1960, Nr 1, pp 165-167 (USSR)

ABSTRACT: The paper is a continuation of previous work (Refs 1 and 3). The cross-sectional dimensions and the coordinate axes are defined in the figure (p 165). The torsional stress function satisfies Poisson's equation (1) and the contour condition (2), where δ is the thickness of the covering and G, G_1 are the shear moduli of the main material and covering, and C_0 is a constant which may be taken as zero for a singly connected region. The torsional rigidity C and the shear stress τ_{xz}, τ_{yz} are determined by the formulae (3). The solution of Eq (1) is written in the form (12), where the λ_k are the successive roots of Eq (7); as $k \rightarrow \infty, \lambda_k \rightarrow \pi(k-1)/a$. The right hand side of (1) Card 1/3 is represented as the series (13), and $F(x,y)$ is then given

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by (15) with A and B given by (17). Inserting these values in (15) and rearranging, the final expression for $F(x,y)$ is (18). The torsion rigidity and shear stresses are then obtained as (19), with γ the angle of twist. A numerical example is considered for a beam of square cross-section with a steel reinforcement of the thickness $\delta = 0.1a$; $G = 8 \cdot 10^4 \text{ kg/cm}^2$, $G_1 = 8 \cdot 10^5 \text{ kg/cm}^2$. The roots of (7) are $a\lambda_1 = 1.312$, $a\lambda_2 = 3.670$, $a\lambda_3 = 6.573$, $a\lambda_4 = 9.627$, $a\lambda_5 = 12.72$. The torsional rigidity $C = 1.157 G a^4$ and the maximum shear stresses are $\tau_{\max} = 0.532 G \gamma a$ in the concrete and $\tau_{\max} = 5.319 G \gamma a$ in the iron. Thus the reinforcing covering increases the rigidity of the rod by more than eight times and the maximum shear stress in the main material for a given twist by 20%. Calculation shows that the first term of (19), corresponding to the root λ_1 , gives a satisfactory approximation.

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S/179/60/000/01/023/034
E081/E535

The Problem of the Torsion of a Rectangular Bar with a Thin
Reinforcing Covering

There are 1 figure and 3 Soviet references.

ASSOCIATION: Institut matematiki i mekhaniki AN Arm.SSR
(Institute of Mathematics and Mechanics, Ac.Sc., ArmSSR)

SUBMITTED: September 21, 1959

Card 3/3

CHOBANYAN, K.S.

Function of stresses for a plane problem in the theory of
elasticity of composite bodies. Dokl. AN ARM SSR 32 no.2:69-77
'61. (MIRA 14:3)

1. Institut matematiki i mekhanika AN Armyanskoy SSR. Predstavleno
akademikom AN ArmSSR N.Kh.Arutyunyanon.
(Elasticity)

CHOBANYAN, K.S.; GALFAYAN, P.O.

A problem in the theory of elasticity for a sectional rectangle.
Izv. AN Arm.SSR.Ser.fiz.-mat.nauk 16 no 2:43-54 '63.

1. Institut matematiki i mekhaniki AN Armyanskoy SSR.
(Elasticity) (MIRA 16:5)

CHOBANYAN, K.S.

Membrane analogy of the problem of torsion of sectional prismatic rods. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 16 no.3:49-56 '63.
(MIRA 16:8)

1. Institut matematiki i mekhaniki AN ArmSSR.
(Elastic rods and wires)

CHOBANYAN, K.S.; MIKAYELIAN, V.V.

Use of the solution to the torsion problem in determining the center of flexure in a sectional rod. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 16 no.4:29-40 '63.

(MIRA 16:8)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR.

CHOBANYAN, K.S. (Yerevan)

"The elasticity problem for bodies with a thin coating".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964.

CHOBANYAN, K.S.

Torsion of prismatic rods with a thin reinforcing coating. Izv.
AN Arm. SSR. Ser.fiz.-mat.nauk 18:2:48-57 '65.

(MIRA 18:6)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR.

CHALTYKYAN, O.A.; BEYLERYAN, N.M.; CHOBANYAN, M.S.; SARUKHANYAN, E.R.

Investigating the kinetics of persulfate - amines reactions
in aqueous solutions. Report No.12: Study of the kinetics of
colamine and pyridine oxidation with potassium persulfate in the
presence of silver ions. Izv.AN Arm.SSR.Khim.nauki 14 no.4:293..
302 'ol. (MIRA 14:10)

1. Yerevanskiy gosudarstvennyy universitet, kafedra fizicheskoy
khimii i problemnaya laboratoriya kinetiki polimerizatsionnykh
protssessov.

(Ethanol) (Pyridine) (Oxidation)

CHOBANYAN, M.S., aspirant; AYRAPETYAN, V.G., nauchnyy rukovoditel', prof.

Inactivated vaccine against Aujeszky's disease from a virus
grown in tissue culture. Veterinariia 42 no.7:19-20 J1 '65.

(MIRA 18:9)

1. Armyanskiy nauchno-issledovatel'skiy institut zhivotnovodstva
i veterinarii.

L 24667-66 ENT(1)/T JK

ACC NR: AP6015820

(A, N)

SOURCE CODE: UR/0346/65/000/007/0019/0020

AUTHOR: Chobanyan, M. S. (Aspirant)

ORG: Armenian Scientific Research Institute of Animal Husbandry and Veterinary Medicine/Scientific Director, Professor V. G. Ayrapetyan/(Armenianskiy nauchno-issledovatel'skiy institut zhivotnovodstva i veterinarii)

TITLE: Inactivated vaccine against Aujeszky's disease, prepared from virus grown in tissue culture

SOURCE: Veterinariya, no. 7, 1965, 19-20

TOPIC TAGS: virus disease, animal disease, vaccine, rabbit, virus, mouse, commercial animal

ABSTRACT: To confirm the possibility of inactivating the Aujeszky's disease virus, a dried strain of the virus was diluted 1:10 in a saline solution and then used to infect a rabbit, which died 72 hours afterward. The brain tissue of the dead rabbit was emulsified in a 1:10 saline solution, centrifuged for 30 minutes at 5,000 rpm, and the supernatant fluid was used to infect renal tissue culture of young rabbits. The virus grown in this way was found to be suitable for the production of inactivated aluminum-hydroxide formaldehyde-killed vaccine. Experiments on white mice showed that the vaccine containing 0.1% formaldehyde is more immunogenic than the vaccine containing 0.15% formaldehyde. Hence, subsequent experiments with sheep were based on the vaccine containing 0.1% formaldehyde. The vaccine proved to be immunogenic and produced persistent immunity to Aujeszky's disease in the vaccinated

Card 1/2

UDC: 619:616.988.23-085.37

I. 24667-66

ACC NR: AP6015820

sheep. The four vaccinated sheep survived, and displayed no symptoms of
Aujeszky's disease, whereas control sheep died of this disease. This inactivated
vaccine of the cultured Aujeszky's disease virus retains its activity for at
least 3 months (the observation period) at a temperature of +2-6°C. Testing of
this vaccine on a broader scale -- on different species of animals -- is thus
indicated. Orig. art. has: 1 table. [JPRS]

SUB CODE: 06, 02 / SUBM DATE: none

Card 2/2 *pla*

CHOBANYAN, R., ekonomist

Some results of the regulation of wages in the machinery and
metalworking enterprises of the Republic. From. Arm. 4
no.7:20-24 J1 '61. (MIRA 14:7)
(Armenia—Wages)

GRIGOR'YEV, I. A.; CHOBANYAN, S. M.

Record setting coal production from a long face: 56,364 tons of coal in one month. Ugol' 37 no.10:1-5 0 '62.

(MIRA 15:10)

1. Isichanskiy trest ugol'noy promyshlennosti Ministerstva ugol'noy promyshlennosti SSSR.

(Donets Basin—Coal mines and mining—Labor productivity)

CHOBANYAN, S.M.; KOVAL'CHUK, I.A., brigadir

Using the LGD-2 cutter-loader, 80,039 tons of coal were mined from a single longwall in a month. 'Ugol' Ukr. 7 no.6:1-4 Je '63. (MIRA 16:8)

1. Nachal'nik shakhty "Privol'nyanskaya-Yuzhnaya" Lisichanskogo tresta ugol'noy promyshlennosti Ministerstva ugol'noy promyshlennosti SSSR (for Chobanyan). 2. Shakhta "Privol'nyanskaya-Yuzhnaya" Lisichanskogo tresta ugol'noy promyshlennosti Ministerstva ugol'noy promyshlennosti DDDT (for Koval'chuk).

CHOBANZADE, M.S.

Plans of currents on the eastern coast of the southern part
of the Caspian Sea and their analysis. Izv. AN Azerb. SSR Ser.
geol.-geog. nauk i nefti no.1:83-90 '63. (MIRA 16x6)

(Caspian Sea region--Ocean currents)

CHOBIN, V.F.

Collective farms in Ust'-Labinsk on a sharp upsurge. Zemle-
delie 25 no.11:17-21 N '63. (MIRA 17:2)

1. Glavnyy agronom kolkhoza "Rodina" Ust'-Labinskogo
proizvodstvennogo upravleniya, Krasnodarskogo kraya.

CHOBIT'KO, I.M.; GANYUK, M.M. [Haniuk, M.M.]

Use of paired and group cutters for cutting shoe upper materials.
Leh. prom. no.2:31-35 Ap-Je '63. (MIRA 16:7)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti
(for Chobit'ko). 2. Kiyevskaya obuvnaya fabrika No.4 (for
Ganyuk).

(Shoe manufacture—Equipment and supplies)

AFANAS'YEV, A.A., *kand.tekhn.nauk, dotsent*; CHOBIT'KO, M.I., inzh.

Investigating the effectiveness of the simultaneous clicking of
leather materials for shoe uppers and linings. *Izv. vys. ucheb.*
zav.; tekhn. leg. prom. no. 1:97-106 '60. (MIRA 14:5)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii obuvnogo proizvodstva.
(Shoe manufacture)

CHOBONI, Kh.; LYACHEY, Kh.; PRAKSIN, S.

Corn in Albania. Zemledelie 7 no.6:89-92 Je '59.

(Albania--Corn (Maize))

(MIRA 12:8)

KNYAZYUK, K.A.; KHATSET, F.I.; CHOBOROVSKAYA, I.S.

Use of heterogeneous soil stabilizing compounds. Avt. dor. 22
no.10:13-15 O '59. (MIRA 13:2)
(Ukraine--Soil stabilization)

ATSUTA, R.V.; KHATSET, F.I.; CHOBOROVSKAYA, I.S.

Precise methods of testing soil mixes with organic binding
materials. Avt. dor. 27 no.4:20 Ap '64. (MIRA 17:9)

Alexander Mikhailovich Krivisskii is 60 years old. Ibid.:19

CHOBOT, Halina; WOLTOWICZ, Wladyslaw

Diseases in children and the weather. Pol. tyg. lek. 19 no.30:
1143-1145 27 J1'64

1. Z I Kliniki Chorob Dzieciacych Akademii Medycznej w Poznaniu
(kierownik: prof. dr. med. T.Rafinski) i z Instytutu Balneokli-
matycznego w Poznaniu (dyrektor: prof. dr. med. J. Jankowiak).

1. TITLE: Matrix expression of the relation between the force method and the strain method 2. AUTHOR: [illegible] 3. SOURCE: [illegible] 4. TOPIC TAGS: mathematical physics, applied mathematics, solid mechanics 5. ABSTRACT: (Author's English summary, modified): If we use a matrix formulation of the force (and) method and the strain method, not only is it possible to derive readily and clearly the basic relation of those two very fundamental methods of calculating frame structures, but the matrix expression makes it possible to derive further relations between those methods and to construct equations common to both methods. 6. Orig. art. has: 20 formulas. 7. Cord 1/2	1. TITLE: [illegible] 2. AUTHOR: [illegible] 3. SOURCE: [illegible] 4. TOPIC TAGS: [illegible] 5. ABSTRACT: [illegible] 6. Orig. art. has: [illegible] 7. Cord [illegible]
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L 37417-63	
ACCESSION NR: AFD019713	
ASSOCIATION: Stavros, James DVT, France	
SUBMITTED: 18Dec63	ENCL: 01
NR REF SOV: 001	OTHER: 06
SUB CODE: MA, ME	
JPRS	

2/2

COUNTRY : Poland H-5
CATEGORY :
ABS. JOUR. : RZKhim., No. 22 1959, No. 78949
AUTHOR : Musial, L., Turoboyski, L., Chotot, M., and *
INST. : Not given
TITLE : Study of the Pollution and Self-Purification of
the Sola River
ORIG. PUB. : Polskie Arzh Hydrobiol, 4, 221-250 (1958)
ABSTRACT : The results from physicochemical, hydrobiologi-
cal, and bacteriological studies of the river,
polluted by the discharge of industrial and
municipal waste waters at a number of points,
are given.
From authors's summary

CARD: 1/1 *Labuz, W.

MUSIAL, L.; CHOBOT, M.; PUDO, J.

Water pollution in the Raba River. Gosp wodna 21 no.8:359 Ag '61.

CHOBOT-MACIEJEWSKA, Halina; TYCZKA, Sabina

Therapeutic elements of Kolobrzeg spa and therapeutic indications for
children. Pediat. pol. 37 no.9:971-977 S '62.
(PEDIATRICS) (THALASSOTHERAPY)

CHOBOT-MACIEJEWSKA, Halina; LEMBINSKA-WIDY, Ludomira; DZIEKOWSKI, Krzysztof;
ZAGAJEWSKI, Wacław

Late diagnosis of thallium poisoning verified by hair examination
in a 13-year-old boy. Pol. tyg. lek. 19 no.7:264-266 10 F '64.

1. Z I Kliniki Chorob Dzieci Akademii Medycznej w Poznaniu
(kierownik: prof. dr med. T. Rafinski).

Chobot S.

SERY, V.; RADKOVSKY, J.; TUMOVA, B.; LOBKOWICZ, F.; CHOBOT, S.

Utilization of horse anti-influenza immune serum for prevention of influenza. Cesk. epidem. mikrob. imun. 6 no.5:309-317 Sept 57.

1. Ustav epidemiologie a mikrobiologie v Praze, reditel prof. Dr Karel Raska--Krajska hygienickoepidemiologicka stanice v Ostrave, reditel Dr J. Verner.

(INFLUENZA, prevention and control,
immune horse serum (Cz))

CHOBOTARU V.

RUMANIA/Cultivable Plants - Grains.

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10707

Author : Pryadchenku, A., Yazadzhi, A., Velikan, V., Dregich, L.,
Bretan, I., Gologan, I., Dalas, V., Melakrinos, A.,
Boldye, Ye., Chobotaru, V., Miklya, K.

Inst : Rumanian Academy.

Title : The Best Sorts of Spring Wheat for the Rumanian People's
Republic.

Orig Pub : Biol., zh. Akad RNR, 1956, 1, No 1, 147-206

Abstract : The results are given of the comparative testing of spring
wheat varieties conducted in 1949-1952 on six experimental
bases, situated in different productive zones of the Russian
People's Republic.

PILYUTIK, N., inzh.; MOSKOVKIN, P., inzh.; CHOBOTOV, K., inzh.

How to adapt arched buildings to be mechanized poultry houses.
Sel'. stroi. 17 no.2:6-7 F '63. (MIRA 16:3)

1. Vsesoyuznyy gosudarstvennyy institut po proyektirovaniyu
elektrifikatsii sel'skogo khozyaystva.
(Poultry houses and equipment)

DIBAK, O.; BUCKO, A.; KORTUS, J.; KOTULIAK, V.; technická spolupráca:
SPUSTOVA, D.; CHOBOŤOVA, M.; BABUŠIK, I.

Protective diets and metabolism of some elements in subjects exposed
to fluorine ions. Bratisl. Lek. Listy 43 no.2:77-88 '62.

1. Z Ústavu pre výskum výživy ľudu v Bratislave, riaditeľ MUDr.

A. Bucko, C. Sc.

(FLUORINE toxicol)	(ALUMINUM metab)
(CALCIUM metab)	(PHOSPHORUS metab) (DIETS)

DIBAK, O.; BROZMAN, B.; KOTULIAK, V.; KORTUS, J.; NEMEC, R.; Technická spolupráca SPUSTOVA, D.; CHOBOTOVA, M.

Conditioned reflex changes in the glycid metabolism in hypotension of short duration. Bratisl. lek. listy 42 no.10:594-602 '62.

1. Z fyziologického oddelenia Ustavu pre vyskum vyzivy ludu v Bratislave, riaditel MUDr. A. Bucko, C. Sc., a z Fyziologického ustavu Lek. fak. Univ. Komenskeho v Bratislave, veduci clen koresp. Slovensky akademie vied J. Antal, Dr.Sc.

(REFLEX CONDITIONED) (CARBOHYDRATES metab)
(ATMOSPHERIC PRESSURE)

KORTUS, J.; DIBAK, O.; KOTULIAK, V.; Technická spolupráce:
SPUSTOVA, D.; CHOBOTOVA, M.; BABUSIK, I.

Effect of various nutritional factors and fluorine ions on
aluminum retention in bony tissue of rats. Cesk. gastroent.
vys. 17 no.4:202-212 Je '63.

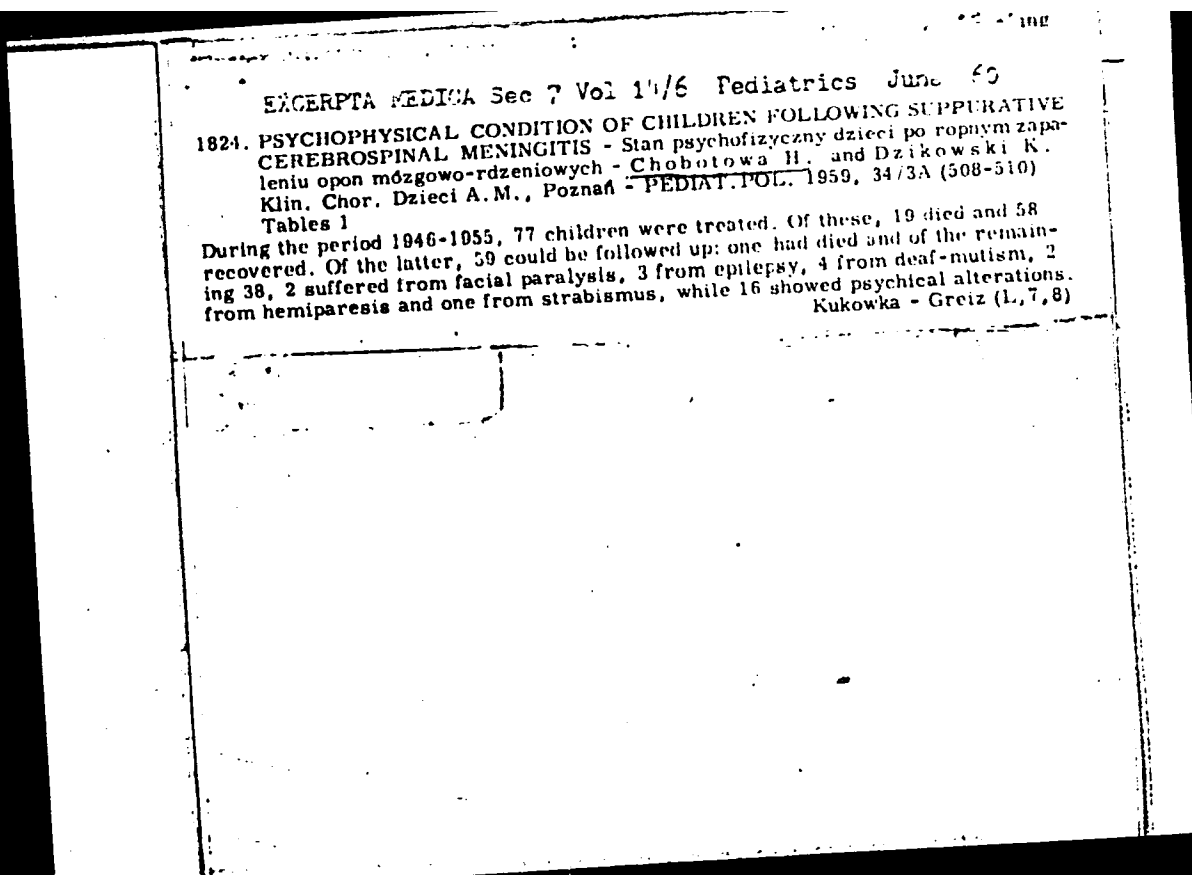
1. Fysiologické oddelenie Ústavu pre výskum výživy ľudu v
Bratislave, riaditeľ MUDr. A. Bucko, CSc.
(DIET) (BONE AND BONES) (ALUMINUM)
(FLUORINE) (VITAMIN D)

EXCERPTA MEDICA Sec 7 Vol 13/10 Pediatrics Oct 59

2662. A CASE OF DIFFUSE SCLEROSIS OF THE BRAIN OF SCHILDER'S TYPE IN A 5-YEAR-OLD GIRL, DIAGNOSED DURING LIFE - Przypadek rozlanego stwardnienia mózgu typu Schildera u 5-letniej dziewczynki rozpoznany za życia - Chobotowa H. and Majewski C. Klin. Chorób Dzieci, Poznań - PEDIAT. POL. 1958, 33/10 (1234-1239) illus. 4

The authors accepted Neubürger's classification in which diseases with the characteristic morbid-anatomical picture of disseminated and diffuse sclerosis of brain are divided into 3 groups: inflammatory type (Schilder), neoplastic (Ceni) and heredo-degenerative (Spielmeyer). Subcortical encephalitis sclerosans cannot be taken into consideration because of its different morbid-anatomical picture.

Warecka - Warsaw (VII, 8°)



CZECHOSLOVAKIA/Chemical Technology. Chemical . H-8
Products and Their Applications.
Elements. Oxides. Mineral Acids.
Bases. Salts.

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 23925

Author : Choc, M.
Inst : -
Title : Selection of Final Water Content of the
Pyrites Concentrate in the Process of Dry-
ing as a Function of Its Hygroscopicity.

Orig Pub : Zdravotnitech. a vzduchotechn., 1958, 1,
No 2, 73-78

Abstract : Laboratory investigations of hygroscopicity
of the pyrites concentrate (apparent bulk
density of 1934 kg/m³) which were performed

Card : 1/3

H-32

CZECHOSLOVAKIA/Chemical Technology. Chemical H-8
Products and Their Applications.
Elements. Oxides. Mineral Acids.
Bases. Salts.

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 23925

for the purpose of establishing the most economically feasible final water content in the dried material are presented. Experiments ~~were~~ conducted on an installation, in which the drying agent (air) passed through water (0.1-0.2 m/sec velocity). Different operating conditions involved (temperature and relative humidity) were attained through variations of water temperatures. In the majority of experiments, relative humidity and temperature of air varied from 70-95 percent and 20-23°, respectively. The

Card : 2/3

CZECHOSLOVAKIA/Chemical Technology. Chemical
Products and Their Applications.
Elements. Oxides. Mineral Acids.
Bases. Salts.

H-8

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 23925

above conditions corresponded to those encountered in commercial installations. On the basis of the obtained sorbtion isotherms it is possible to calculate economically profitable final water content of materials at a given temperature and relative humidity of the drying air.

Card : 3/3

H-33

CHOC, M.

Significance of moisture absorption of material for selecting final moisture in drying. p. 73.

ZDRAVOTNI TECHNIKA A VZDUCHOTECHNIKA. (Ceskoslovenska akademie ved. Ceskoslovenska vedecka technicka spolecnost pro zdravotni techniku a vzduchotechniku) Praha, Czechoslovakia. Vol. 1, no. 2, 1958.

Monthly list of East European Accessions (IEAI), LC, Vol. 8, no. 7, July 1959. Uncl.

CHOC, M.

Basic experiences concerning the effect of vibration on the drying of granulated matter.

Československá vědecká technická společnost pro zdravotní techniku a
vzduchotechniku. SBORNIK. Praha, Czechoslovakia. No. 3, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 10.
Oct. 1959.
Uncl.

STRACH, L.; KORGER, M.; CHOC, M.

Drying research at the Czechoslovak State Research Institute for Heat Engineering. Acta techn Hung 1.0 no.3/4:359-382 '62.

1. Staatliches Forschungsinstitut fur Wärmotechnik, Praha.

CHOC, Pavel, prof. (Prague-Vinohrady, Srobarovsk1)

Development of roads and transportation in Bohemia up to the
13th century. Sbor zem 70 no.1:16-33 '65.

CHOCHEV, Stefan, inzh.

A method for static computation of continuous girders
and framed structures through the direct determination
of bending moments. Stroitelstvo 11 no.6:19-22 N-D '64.

ACC NR: AM6013190

(A)

Monograph

UR/

Chocha, Bolesaw

Defense of the country's territory (Obrona terytorium kraju)
[Warsaw] Wyd-wo MON [1965] 0259 p. illus., biblio. Errata
slip inserted. 5800 copies printed. Series note: Biblioteka
wiedzy wojskowej. Seria VIII

TOPIC TAGS: armed force organization, ground force organization,
civil defense

PURPOSE AND COVERAGE: This book is intended for teachers and
students. It presents primarily non-Polish concepts, with one
chapter on Polish viewpoints on defense of the homeland. According
to the author, this work is not comprehensive and does not offer
final conclusions.

TABLE OF CONTENTS: [abridged]:

Ch. I. Past Experience -- 19

Ch. II. A Country's Defenses; Territorial Defense System -- 63

Ch. III. Defense against Mass-Destruction Weapons within the

Card 1/2